

**Study Number:** C04051-01  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Rat/Sprague Dawley

**R07: Hormone Summary**  
**Test Compound:** 1,1,2,2-Tetrahydroperfluoro-1-dodecanol  
**CAS Number:** 865-86-1

**Date Report Requested:** 02/02/2021  
**Time Report Requested:** 08:20:59  
**Lab:** Battelle

**Study Number:** C04051-01  
**Study Gender:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.1.7

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**Male: Core Animals**

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Terminal Sacrifice		Treatment Groups (mg/kg)			
		0	0.07	0.2	0.7
SD 5 - 5	Thyroid Stimulating Hormone (ng/mL)	4.500 ± 0.667 (9) **	3.275 ± 0.867 (4)	2.725 ± 0.602 (4)	4.050 ± 1.005 (4)
SD 5 - 5	Triiodothyronine (ng/dL)	47.989 ± 2.230 (9) *	47.450 ± 3.977 (4)	51.250 ± 1.015 (4)	48.025 ± 2.967 (4)
SD 5 - 5	Free Thyroxine (ng/dL)	7.260 ± 0.292 (9) *	7.205 ± 0.237 (4)	6.785 ± 0.199 (4)	5.980 ± 0.367 (4)
SD 5 - 5	Total Thyroxine (ug/dL)	2.46 ± 0.14 (9)	2.41 ± 0.13 (4)	2.48 ± 0.20 (4)	2.62 ± 0.18 (4)

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Terminal Sacrifice	Treatment Groups (mg/kg)			
	2	6	18	55
SD 5 - 5 Thyroid Stimulating Hormone (ng/mL)	3.425 ± 0.807 (4)	5.400 ± 1.158 (4)	6.800 ± 1.529 (4)	12.480 ± 2.168 (5)
SD 5 - 5 Triiodothyronine (ng/dL)	42.975 ± 1.739 (4)	51.750 ± 2.302 (4)	50.825 ± 2.492 (4)	45.900 ± 3.069 (4)
SD 5 - 5 Free Thyroxine (ng/dL)	6.840 ± 0.685 (4)	6.485 ± 0.583 (4)	6.980 ± 0.472 (4)	7.042 ± 0.249 (5)
SD 5 - 5 Total Thyroxine (ug/dL)	3.00 ± 0.26 (4)	2.69 ± 0.23 (4)	2.73 ± 0.42 (4)	2.76 ± 0.23 (4)

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Terminal Sacrifice		Treatment Groups (mg/kg)	
		160	475
SD 5 - 5	Thyroid Stimulating Hormone (ng/mL)	5.760 ± 0.865 (5)	11.560 ± 2.285 (5) *
SD 5 - 5	Triiodothyronine (ng/dL)	40.600 ± 1.802 (5)	39.740 ± 1.327 (5)
SD 5 - 5	Free Thyroxine (ng/dL)	5.604 ± 0.354 (5) *	6.232 ± 0.531 (5)
SD 5 - 5	Total Thyroxine (ug/dL)	2.21 ± 0.32 (5)	1.88 ± 0.27 (5)

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**Female: Core Animals**

Terminal Sacrifice		Treatment Groups (mg/kg)			
		0	0.07	0.2	0.7
SD 5 - 5	Thyroid Stimulating Hormone (ng/mL)	4.720 ± 0.747 (10)	3.640 ± 0.455 (5)	3.000 ± 0.496 (5)	2.500 ± 0.300 (3)
SD 5 - 5	Triiodothyronine (ng/dL)	60.030 ± 3.704 (10) *	67.180 ± 4.671 (5)	69.920 ± 6.581 (5)	70.500 ± 10.300 (3)
SD 5 - 5	Free Thyroxine (ng/dL)	7.023 ± 0.761 (10) **	6.890 ± 0.704 (5)	8.894 ± 3.168 (5)	7.277 ± 0.779 (3)
SD 5 - 5	Total Thyroxine (ug/dL)	2.67 ± 0.23 (10)	3.10 ± 0.34 (5)	3.45 ± 0.54 (5)	3.61 ± 0.45 (3)

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Terminal Sacrifice	Treatment Groups (mg/kg)			
	2	6	18	55
SD 5 - 5 Thyroid Stimulating Hormone (ng/mL)	3.375 ± 0.429 (4)	3.560 ± 0.578 (5)	6.080 ± 1.666 (5)	4.240 ± 0.592 (5)
SD 5 - 5 Triiodothyronine (ng/dL)	57.200 ± 7.083 (4)	62.220 ± 1.681 (5)	59.360 ± 4.523 (5)	58.320 ± 2.807 (5)
SD 5 - 5 Free Thyroxine (ng/dL)	7.995 ± 0.720 (4)	8.554 ± 0.527 (5)	10.044 ± 1.206 (5)	9.840 ± 0.706 (5)
SD 5 - 5 Total Thyroxine (ug/dL)	3.26 ± 0.24 (4)	3.10 ± 0.19 (5)	3.55 ± 0.32 (5)	3.12 ± 0.23 (5)

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Terminal Sacrifice	Treatment Groups (mg/kg)	
	160	475
SD 5 - 5 Thyroid Stimulating Hormone (ng/mL)	4.275 ± 1.242 (4)	7.767 ± 2.888 (3)
SD 5 - 5 Triiodothyronine (ng/dL)	57.850 ± 2.017 (4)	45.333 ± 3.920 (3)
SD 5 - 5 Free Thyroxine (ng/dL)	8.908 ± 0.493 (4)	8.807 ± 1.544 (3)
SD 5 - 5 Total Thyroxine (ug/dL)	3.24 ± 0.53 (4)	2.58 ± 0.26 (3)

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#### LEGEND

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Data are displayed as mean  $\pm$  SEM (N) unless otherwise noted.

SD – Study Day

Statistical analysis were performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

**\*\* END OF REPORT \*\***